

PAJ

TI - INTAKE SYSTEM OF ENGINE

AB - PURPOSE: To provide an intake system for an engine with a supercharger provided with a variable valve timing mechanism and a variable intake mechanism, for effectively preventing knocking at the time of quick acceleration from a low rotational and low load region, and for improving acceleration responsiveness.

- CONSTITUTION: An opening valve overlap of an intake device A of an engine E with a supercharger, provided with a hydraulic variable valve timing mechanism 21, a P port 4 for constantly feeding air to a combustion chamber, and with an S port 5 provided with an opening and closing valve 39, is made small in a low load and low rotation region, and is made large in the other regions, while the opening and closing valve 39 is closed in a low rotation region, and is opened in the other regions. A control means (control unit 23) is also provided, by which the opening and closing valve 39 is forcibly opened for a fixed period at the time of quick acceleration from a condition where the opening valve overlap is small.

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PA - MAZDA MOTOR CORP

IN - SASAKI JUNZO; others: 01

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